Introduction to Ajax

Apr 22, 2005
Sang-Kil Park

What is Ajax?

What is Ajax?

Asynchronous Javascript And XML

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Asynchronous Javascript And XML

The History of Ajax

HTTP has some limitations.

Microsoft's Remote Scripting
XML and XSLT

IE Specific

We need more flexible skills.

XMLHttpRequest

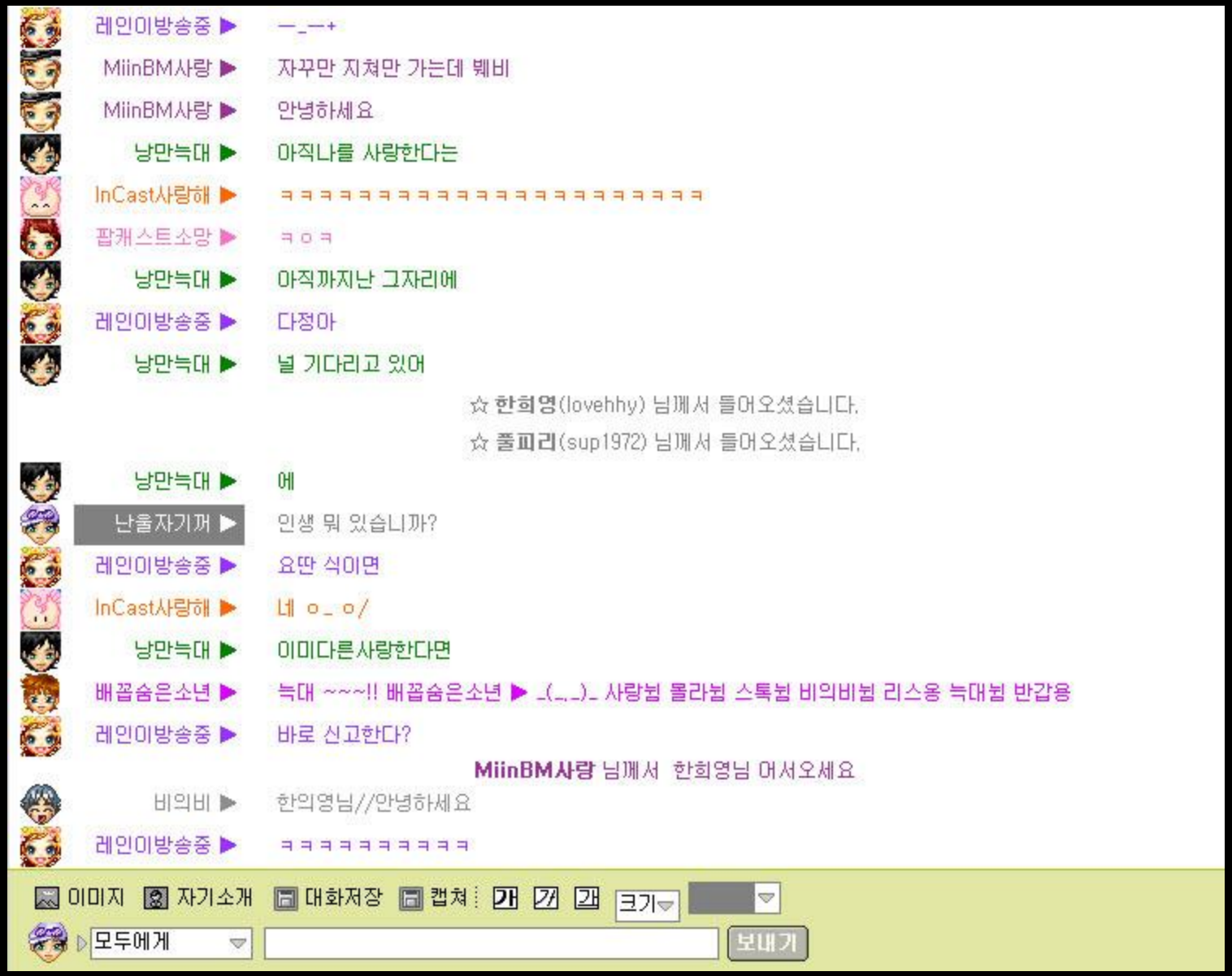
Microsoft first implemented the XMLHttpRequest object in Internet Explorer 5 for Windows as an ActiveX object.

Engineers on the Mozilla project implemented a compatible native version for Mozilla 1.0 (and Netscape 7).

Apple has done the same starting with Safari 1.2.

W3C, Document Object Model (DOM) Level 3 Load and Save Specification.

XMLHttpRequest object has become a *de facto* standard.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MiinBM사랑 ▶ 자꾸만 지쳐만 가는데 뭬비
MiinBM사랑 ▶ 안녕하세요
낭만늑대 ▶ 아직나를 사랑한다는
InCast사랑해 ▶ ㅋㅋㅋㅋㅋㅋㅋㅋㅋㅋㅋㅋㅋㅋㅋㅋㅋㅋㅋㅋㅋㅋㅋ
팝캐스트소망 ▶ ㅋㅇㅋ
낭만늑대 ▶ 아직까지난 그자리에
레인이방송중 ▶ 다정아
낭만늑대 ▶ 널 기다리고 있어
☆ 한희영(lovehhy) 님께서 들어오셨습니다.
☆ 풀피리(sup1972) 님께서 들어오셨습니다.
낭만늑대 ▶ 에
난울자기꺼 ▶ 인생 뭐 있습니까?
레인이방송중 ▶ 요딴 식이면
InCast사랑해 ▶ 네 ㅇ_ㅇ/
낭만늑대 ▶ 이미다른사랑한다면
배꼽숨은소년 ▶ 늑대 ~~~!! 배꼽숨은소년 ▶ _(._.)_ 사랑빔 몰라빔 스톡빔 비의비빔 리스옹 늑대빔 반갑용
레인이방송중 ▶ 바로 신고한다?
MiinBM사랑 님께서 한희영님 어서오세요
비의비 ▶ 한의영님//안녕하세요
레인이방송중 ▶ ㅋㅋㅋㅋㅋㅋㅋㅋㅋㅋ
이미지
자기소개
대화저장
캡쳐
크기
모두에게
보내기

Who named Ajax?

Apr 1, 2004 April Fool's Day

Google

E-Mail Services

1GB Storage

Apr 1, 2004 April Fool's Day

Google

E-Mail Services

1GB Storage

Incredible User Interfaces

만우절 뻥?

Gmail by Google BETA
likejazz@gmail.com | 새로운 기능! | 설정 | 도움말 | 로그아웃
메일 검색
웹 검색
검색 옵션 보기
필터 만들기
메일 쓰기
보내기
임시 보관함에 저장
삭제
받은 편지함 (70)
별표
보낸 편지함
임시 보관함
전체 편지함
스팸 메일 (10)
휴지통
주소록
받는 사람:
참조 추가 | 숨은 참조 추가
제목:
파일 첨부
RTF 형식 »
메일 분류
Google News Alert - gma
Google Notifier (66)
Mono-list (1616)
분류 수정
친구 초대
Gmail을 제공할 대상:
초대장 보내기
50개 남음
초대장 미리보기

Ajax: A New Approach to Web Applications

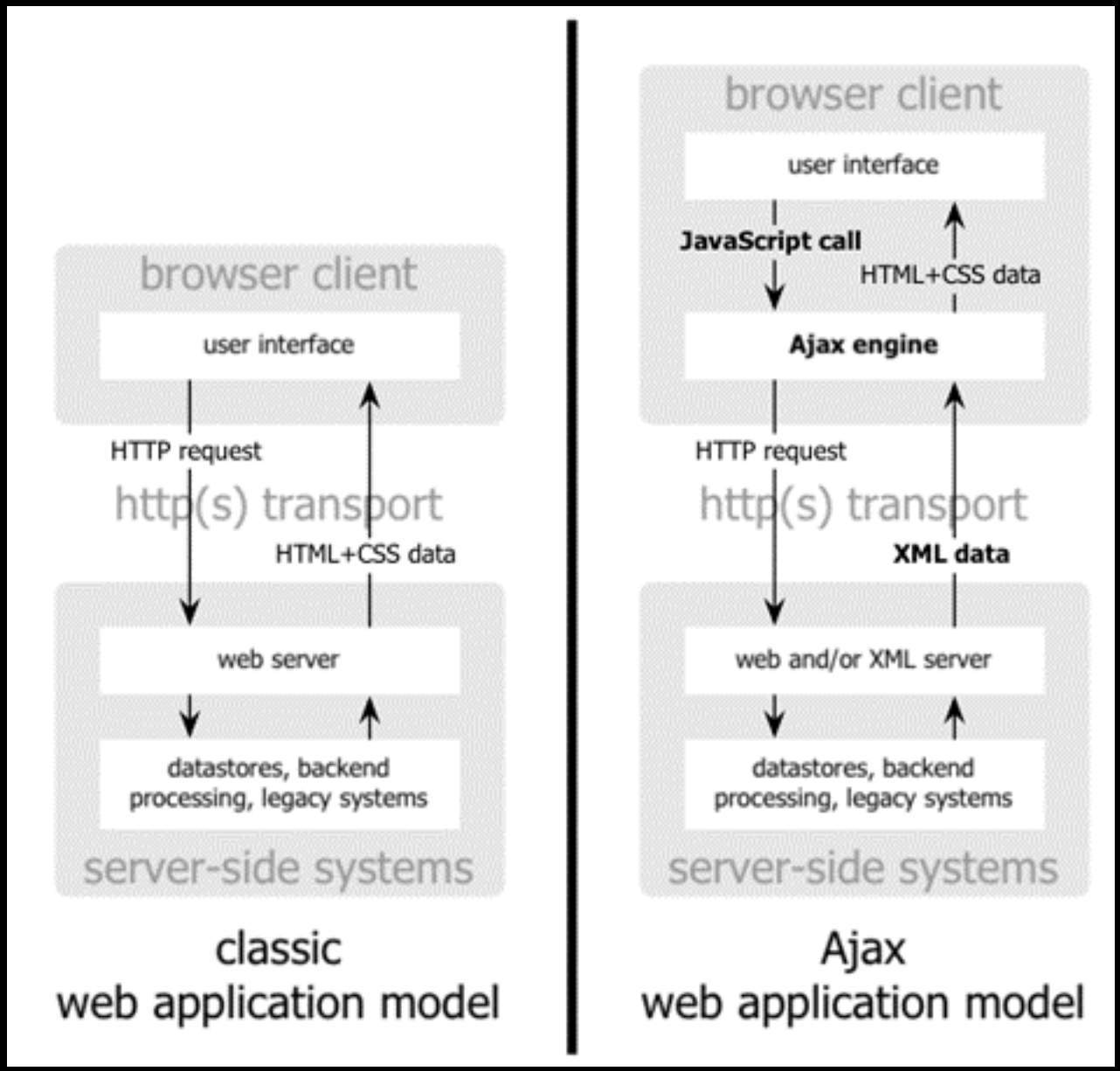
Feb 18, 2005

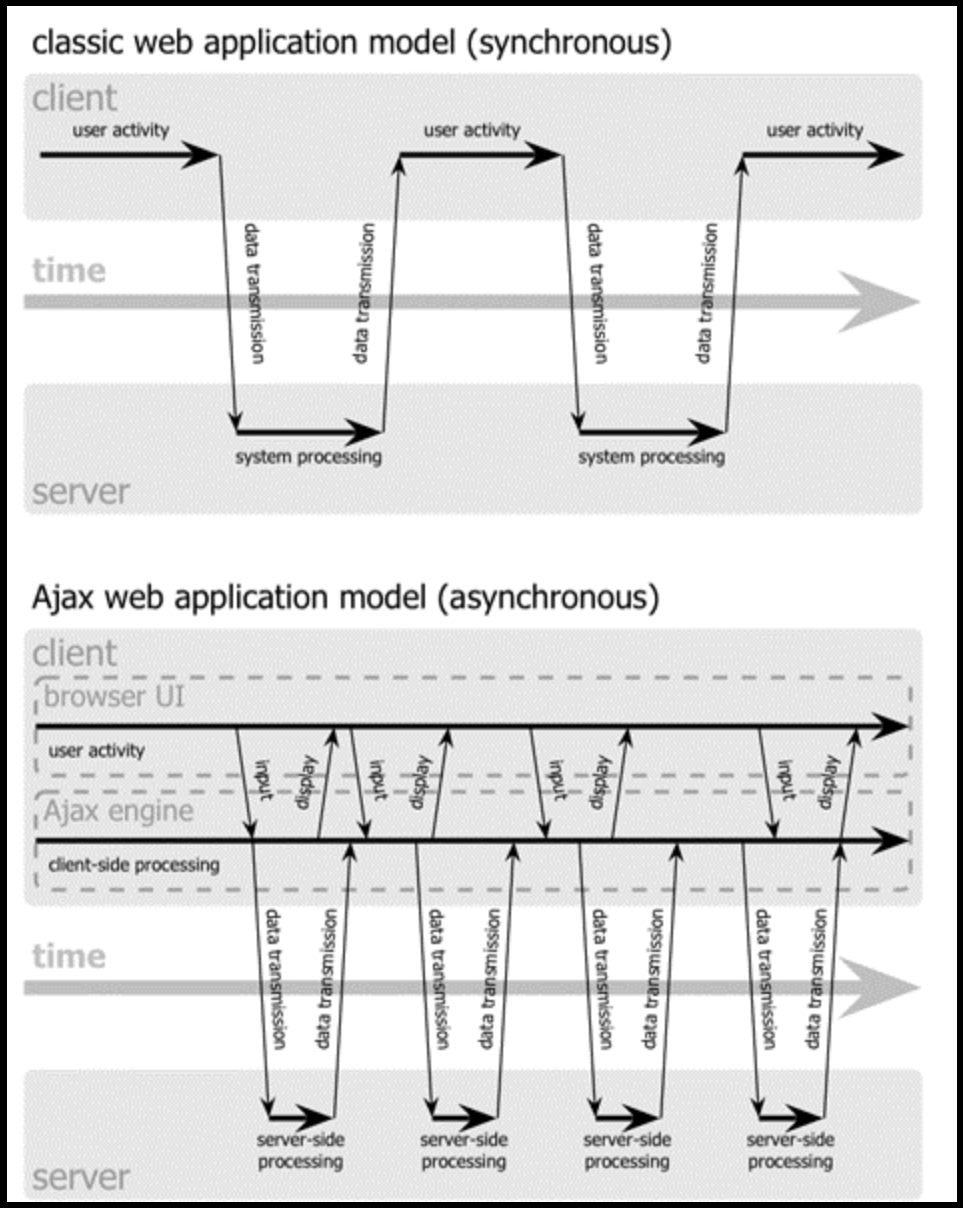
Jesse James Garrett , adaptive path

Defining Ajax

Defining Ajax

standards-based presentation using XHTML and CSS
dynamic display and interaction using the Document Object Model
data interchange and manipulation using XML and XSLT
asynchronous data retrieval using XMLHttpRequest
and JavaScript binding everything together


browser client
user interface
HTTP request
http(s) transport
HTML+CSS data
web server
datastores, backend processing, legacy systems
server-side systems
classic web application model
browser client
user interface
JavaScript call
HTML+CSS data
Ajax engine
HTTP request
http(s) transport
XML data
web and/or XML server
datastores, backend processing, legacy systems
server-side systems
Ajax web application model


classic web application model (synchronous)
client
user activity
user activity
user activity
data transmission
data transmission
data transmission
data transmission
time
system processing
system processing
server
Ajax web application model (asynchronous)
client
browser UI
user activity
input
display
input
display
input
display
input
display
Ajax engine
client-side processing
data transmission
data transmission
data transmission
data transmission
data transmission
data transmission
data transmission
data transmission
time
server-side processing
server-side processing
server-side processing
server-side processing
server

Ajax =

Ajax =

XMLHttpRequest + asynchronous

HTTP is a not reliable Protocol.

DHTML Dude, Dave Massy(Microsoft) said:

Ajax is just DHTML + XMLHttp

asynchronous

Columbus breaking the Egg.

Google breaking the XMLHttpRequest and inventing the Ajax.

```
var xmlhttp = new XMLHttpRequest();
xmlhttp.open('GET','http://somesite.com',false); // 3rd arg false = sync
var responseText = xmlhttp.send(null);
```

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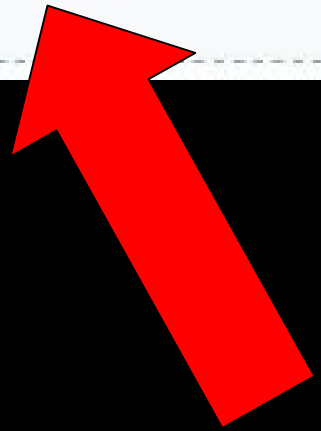

true = asynchronous

Ajax isn't something you can download. It's an approach.

The Future of Ajax

Weblications

Dec 20, 2004
Adam Rifkin, former Microsoftie

Rich Internet Applications(RIA)

Macromedia: Flash, Flash Communications Server, Central, Flex.
Microsoft: Active-X, XAML
W3C: SVG
Google: Ajax(XMLHttpRequest, JavaScript, XML)

Adobe LiveMotion, Laszlo, Java Applet

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W3C: SVG
Google: Ajax(XMLHttpRequest, JavaScript, XML)

Adobe LiveMotion, Laszlo, Java Applet

web2.0
CONFERENCE™

Ajax is the trendy method of developing Web 2.0 apps right now.

RubyOnRails 0.11
Ajax in under five minutes

사용자:

개발자:

사용자: 사용하기 쉽다.

개발자: 만들기 쉽다.

Win-Win

BUT

Do not load entire pages.
Do not break what the user is focusing on.
Do not use it to eliminate acceptance.
Do not over-use it.
Consider how to handle users that cannot use XMLHttpRequest.

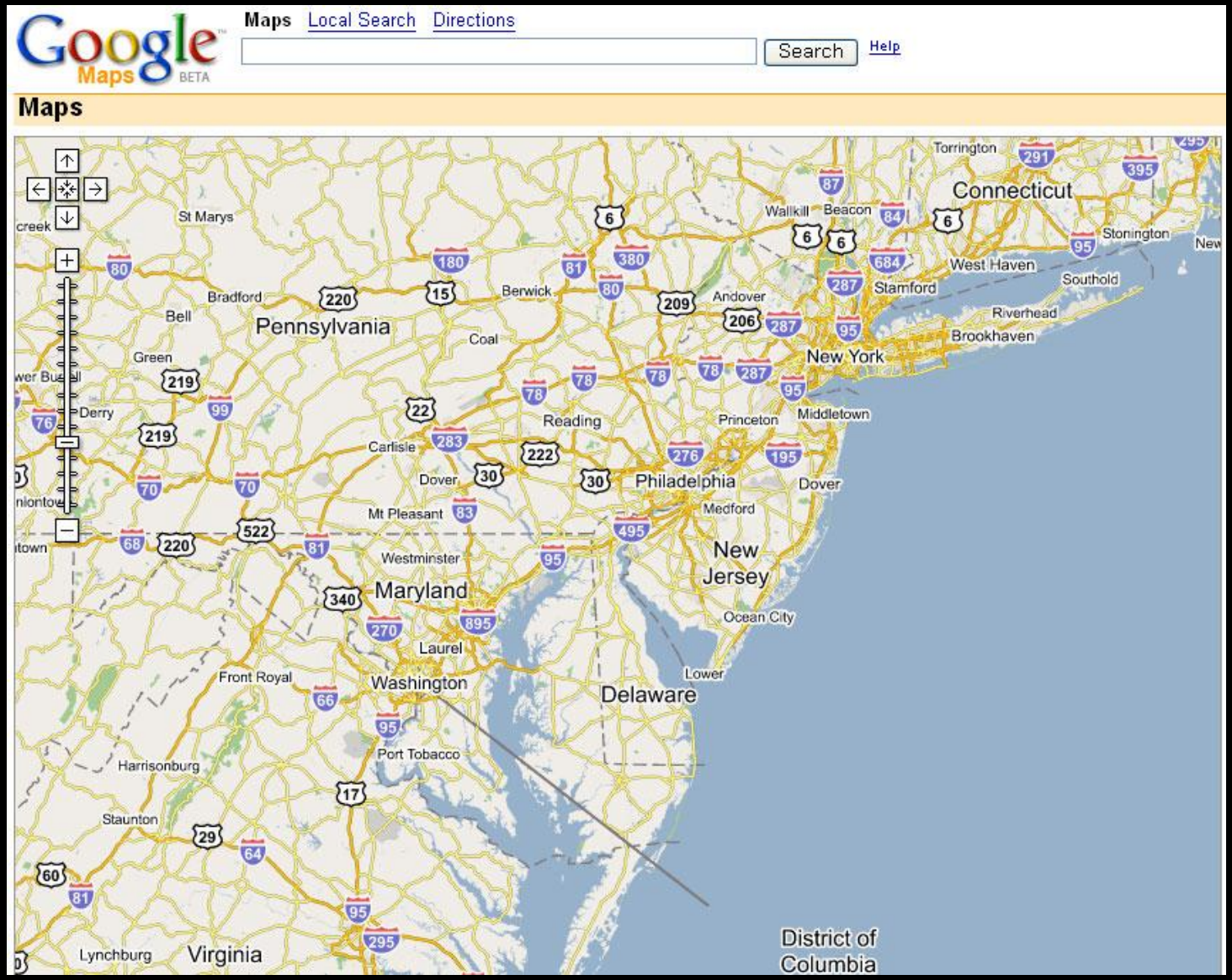
Case Study #1

Google Suggest

likejazz@gmail.com | My Search Histo
Google
Suggest BETA
Web Images Groups News Froogle Local New! 데스크톱 more »
jazz
Advanced Search
Preferences
Language Tools
jazz 60,200,000 results
jazz cafe 3,590,000 results
jazz fm 4,170,000 results
jazz fest 3,230,000 results
jazz music 21,900,000 results
jazzercise 115,000 results
jazz age 7,130,000 results
jazz at lincoln center 694,000 results
jazzfest 158,000 results
jazzy b 358,000 results
As you type, G
ts. Learn more

Case Study #2

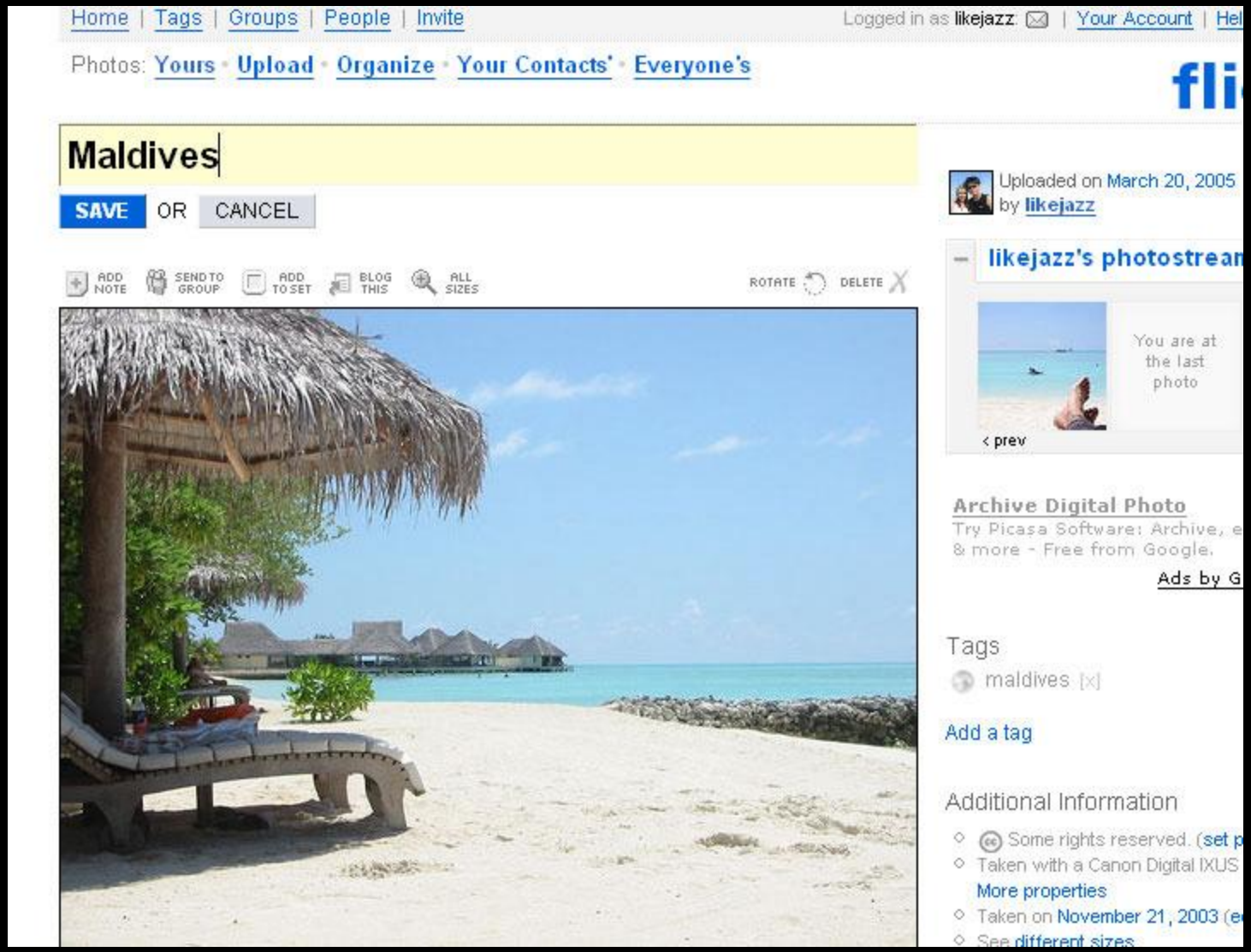
Google Maps


Google Maps BETA
Maps
Local Search
Directions
Search
Help
Maps
Connecticut
Torrington
Wallkill
Beacon
Stonington
West Haven
Southold
Stamford
Riverhead
Brookhaven
New York
Andover
Berwick
Coal
Pennsylvania
Bradford
Bell
Green
St Marys
Derry
Carlisle
Reading
Princeton
Middletown
Dover
Philadelphia
Medford
Mt Pleasant
Westminster
Maryland
New Jersey
Ocean City
Laurel
Washington
Front Royal
Delaware
Lower
Port Tobacco
Harrisonburg
Staunton
Lynchburg
Virginia
District of Columbia

NOT Active-X

Case Study #3

Flickr


Home | Tags | Groups | People | Invite
Logged in as likejazz: | Your Account | Hel
Photos: Yours · Upload · Organize · Your Contacts' · Everyone's
Maldives
SAVE OR CANCEL
ADD NOTE
SEND TO GROUP
ADD TO SET
BLOG THIS
ALL SIZES
ROTATE
DELETE
Uploaded on March 20, 2005
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Try Picasa Software: Archive, e
& more - Free from Google.
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Add a tag
Additional Information
Some rights reserved. (set p
Taken with a Canon Digital IXUS
More properties
Taken on November 21, 2003 (e
See different sizes

DEMO

References

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- Rails 0.11.0: Ajax, Pagination, Non-vhost, Incoming mail
- XMLHttpRequest Usability Guidelines